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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,764	08/20/2003	Pu Zhou	1001.1688101 8049	
	7590 07/27/2007 SEAGER & TUFTE, LLC	EXAMINER		
1221 NICOLLI		KOHARSKI, CHRISTOPHER		
SUITE 800 MINNEAPOLI	S, MN 55403-2420	ART UNIT	PAPER NUMBER	
			3763	- -
			MAIL DATE	DELIVERY MODE
			07/27/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		Application	No.	Applicant(s)	0 1			
		10/645,764		ZHOU, PU				
		Examiner		Art Unit				
). Koharski	3763				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply								
WHICHEVER IS LO - Extensions of time may be after SIX (6) MONTHS fro - If NO period for reply is sp - Failure to reply within the Any reply received by the	ATUTORY PERIOD FOR REPL NGER, FROM THE MAILING D as available under the provisions of 37 CFR 1.1 m the mailing date of this communication. Decified above, the maximum statutory period set or extended period for reply will, by statute Office later than three months after the mailing ment. See 37 CFR 1.704(b).	DATE OF THIS 136(a). In no event, will apply and will ex e, cause the applicati	COMMUNICATION however, may a reply be tim pire SIX (6) MONTHS from ion to become ABANDONE	J. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1) Responsive to	communication(s) filed on <u>5/18</u>	<u>3/2007</u> .						
2a)⊠ This action is	☑ This action is FINAL. 2b) ☐ This action is non-final.							
3) Since this app	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in acco	ordance with the practice under I	Ex parte Quay	e, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims								
4)⊠ Claim(s) <u>1-2,6</u>	5-8,10,12,17 and 18 is/are pendi	ing in the applic	cation.					
4a) Of the abo	4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s)	5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-2,6</u>)⊠ Claim(s) <u>1-2,6-8,10,12,17 and 18</u> is/are rejected.							
7) Claim(s)	Claim(s) is/are objected to.							
8) Claim(s)	_ are subject to restriction and/o	or election requ	uirement.					
Application Papers				•				
9)☐ The specificati	on is objected to by the Examine	er.						
· — ·	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement de	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or de	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C	C. § 119							
12) Acknowledgme	ent is made of a claim for foreign	n priority under	35 U.S.C. § 119(a))-(d) or (f). ·				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachment(s)			_					
1) Notice of References C		4)	Interview Summary					
	s Patent Drawing Review (PTO-948) Statement(s) (PTO/SB/08)	5)	Paper No(s)/Mail Da Notice of Informal P					
Paper No(s)/Mail Date		6)	Other:					

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DETAILED ACTION

Response to Amendment

Examiner acknowledges reply filed 5/18/2007, in which no claims were amended. Currently claims 1-2, 6-8, 10, 12, 17 and 18 are pending for examination in this application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-2, 8, 10 and 12 are rejected under 35 U.S.C 103(a) as being unpatentable over Schoenholtz (6,203,534) in view of Cohen (5,330,521).

Regarding claims 1-2, 8, 10 and 12, Schoenholtz discloses a catheter (12) with a braided reinforcing layer (24) that is made from two or more continuous wires woven together made up of stainless steel (col 4, In 10-35) (Figures 1-3) with a protective overcoat (42, 22) over this woven wire reinforcement. Schoenholtz meets the claim

limitations as described above except for the distal and proximal braided section having a decreasing cross sectional area.

However, Cohen teaches an electrical lead including a wire core having a crosssectional area, which differs over its length.

Regarding claims 1-2, 8, 10 and 12, Cohen teaches (Figure 4) an implantable tubular device that uses a wire-reinforcement coil (42) with a diameter that decreases along its length (dL, dS) along with various production methods (Figure 4, col 8, ln 60-70, col 9, ln 1-43).

At the time of the invention, it would have been obvious to add the methods and reinforcement member teachings of Cohen to the system of Schoenholtz because as taught in Cohen the reduction of the core diameter of the reinforcement member allows for tip flexibility and tracking within a patient without overly compromising the tip strength. The references are analogous in the art and with the instant invention; therefore, a combination is proper. Therefore, one skilled in the art would have combined the teachings in the references in light of the disclosure of Cohen.

Claim Rejections - 35 USC § 103

Claims 6-7 and 17-18 are rejected under 35 U.S.C 103(a) as being unpatentable over Schoenholtz (6,203,534) in view of Cohen (5,330,521).

Schoenholtz in view of Cohen meets the claim limitations as described above except for the specific portion wire diameters.

Regarding claims 6-7 and 17-18, Cohen teaches a specific wire transition diameter and also states that various other diameters may also be employed (col 9, In 25-35).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the system of Schoenholtz in view of Cohen with the wire core ranges as claimed by Applicant, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller, 105 USPQ 233 (CCPA 1955)*.

Response to Arguments

Applicant's arguments filed 5/18/2007 have been fully considered but they are not persuasive. Applicant's Representative asserts that the combination of Schoenholtz (6,203,534) in view of Cohen (5,330,521) is not proper because it does not address the same particular problems as the claimed invention, and the catheter are in different fields of invention with no motivation to combine.

Examiner has fully considered applicant's arguments but they are not persuasive. It is examiners position that given a careful reading, the claims do not distinguish over the prior art of record.

Examiner asserts that the combination of references meets the claim limitations and that the inventions are in the same field of endeavor, both references are implant able electrode catheters (see abstracts, summaries of invention) that are reinforced to improve catheter tracking and proximal flexibility. Additionally, in response to applicant's arguments against the references individually, one cannot show

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nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

The prior art of record teaches all elements as claimed and these elements satisfy all structural, functional, operational, and spatial limitations currently in the claims. Therefore the standing rejections are proper and maintained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher D. Koharski whose telephone number is 571-272-7230. The examiner can normally be reached on 7:30am to 4:00pm EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nick Lucchesi can be reached on 571-272-4977. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher D. Koharski AU 3763

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